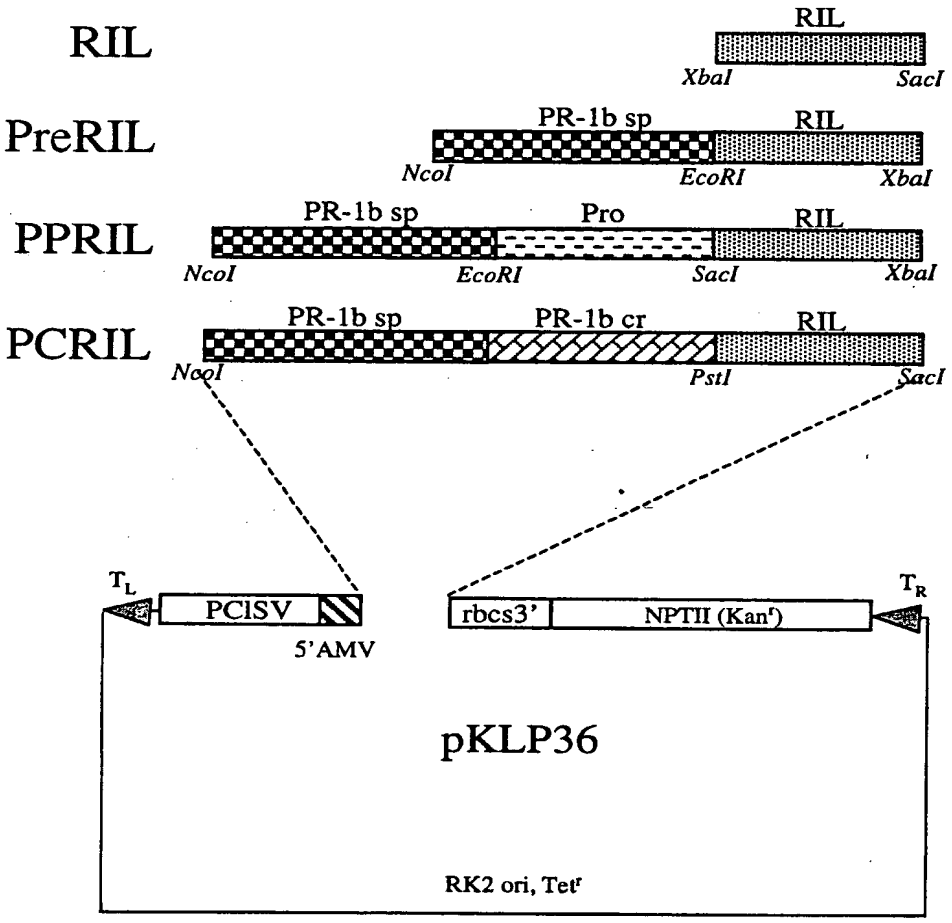
FIG. 1

RIL gene constructs



Abreations:
RIL: reverse indolicidin; PR-1b sp, Pathogen related protein 1b signal peptide; PR-1b cr, PR-1b coding region; Pro, the modified pro sequence of Magainin; PClSV, duplicated promoter from peanut chlorotic streak caulimovirus; 5' AMV, the leader sequence of alfalfa mosaic virus; rbcs3', 3' untranslated region of rubisco small subunit gene; NPTII, the gene confer Kanamycin resistance in plant; T_L and T_R, the T-DNA left and right border, respectively; Kan^r and Tet^r, Kanamycine and tetracycline resistance gene, respectively; ori, the origin for DNA replication.

FIG. 2

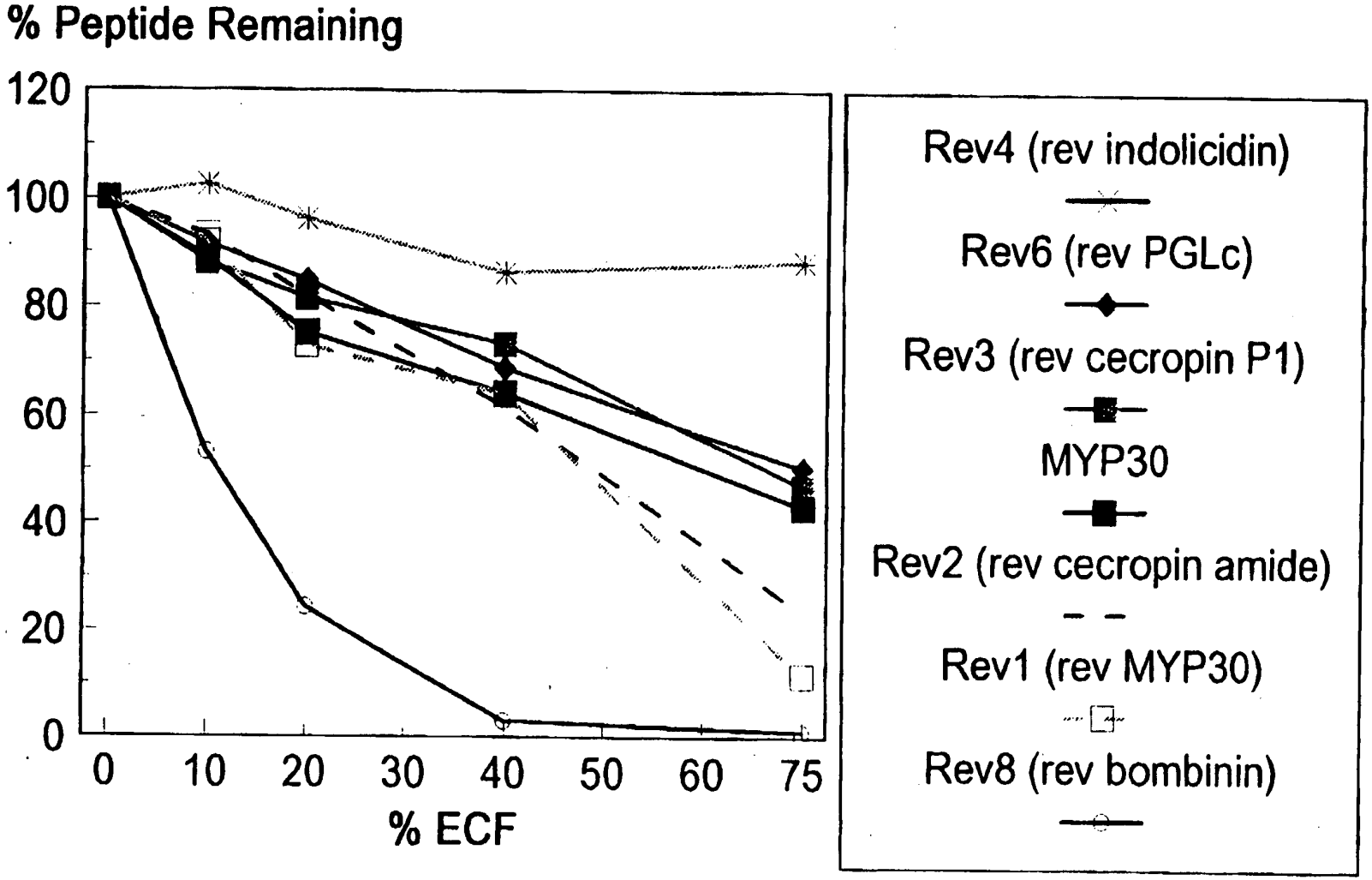

% Peptide Remaining
120
100
80
60
40
20
0
0
10
20
30
40
50
60
75
% ECF
Rev4 (rev indolicidin)
Rev6 (rev PGLc)
Rev3 (rev cecropin P1)
MYP30
Rev2 (rev cecropin amide)
Rev1 (rev MYP30)
Rev8 (rev bombinin)

FIG. 3

Lines	% surving plants
KYLX	0.16
RIL 26	0.48
PCRIL 24	0.36
PCRIL 26	0.61

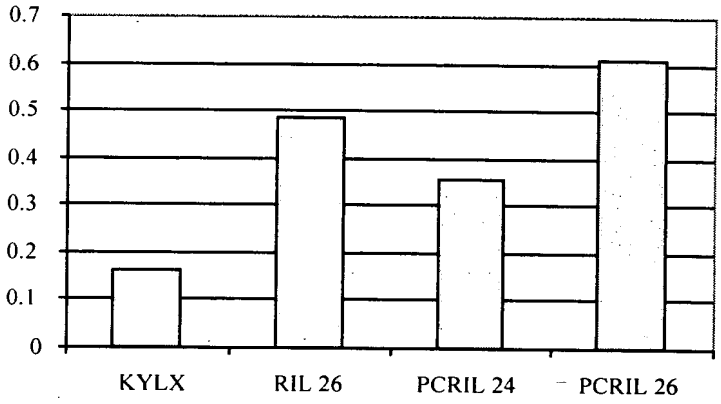


Fig 3. *Erwinia carotovara* resistance tests of Rev4 tobacco transgenic plants. Two μl of a bacterial suspension were inoculated onto the leaf of each tobacco seedling (4 weeks old), cultured in 24-well plates containing MS medium. 8 replications of 6 plants for each transgenic line and controls were tested.